

Assignment -2
Python Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-1:

Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Solution:

```
import random

import time

while (1):

    temp = random.randint(0, 100)

    humidity = random.randint(0, 100)

    if temp>60 and humidity>60:

        print("ALERT!! Detected temperature: "+str(temp)+"°C"+"

"+"Detected humidity: "+str(humidity))

    elif temp > 60:

        print("ALERT!! Detected temperature: " + str(temp) + "°C")

    elif humidity > 60:

        print("ALERT!! Detected humidity: "+str(humidity))

    time.sleep(1)
```

```
temp-humidity | it.py
1 import random
2 import time
3
4 while (1):
5     temp = random.randint(0, 100)
6     humidity = random.randint(0, 100)
7     if temp > 60 and humidity > 60:
8         print("ALERT!!! Detected temperature: "+str(temp)+"°C" + " Detected humidity: "+str(humidity))
9     elif temp > 60:
10        print("ALERT!!! Detected temperature: " + str(temp) + "°C")
11    elif humidity > 60:
12        print("ALERT!!! Detected humidity: "+str(humidity))
13    time.sleep(1)
14
15 while (1):
16     print("ALERT!!! Detected temperature: 69°C")
17     print("ALERT!!! Detected temperature: 71°C")
18     print("ALERT!!! Detected temperature: 92°C")
19     print("ALERT!!! Detected temperature: 81°C")
20     print("ALERT!!! Detected humidity: 80")
21     print("ALERT!!! Detected temperature: 70°C")
22     print("ALERT!!! Detected temperature: 93°C")
23     print("ALERT!!! Detected temperature: 69°C")
24     print("ALERT!!! Detected humidity: 66")
25     print("ALERT!!! Detected temperature: 94°C Detected humidity: 80")
26     print("ALERT!!! Detected temperature: 72°C")
27     print("ALERT!!! Detected humidity: 78")
28     print("ALERT!!! Detected temperature: 61°C")
29     print("ALERT!!! Detected temperature: 92°C")
30     print("ALERT!!! Detected humidity: 89")
31     print("ALERT!!! Detected temperature: 68°C Detected humidity: 94")
32     print("ALERT!!! Detected temperature: 90°C Detected humidity: 62")
33     print("ALERT!!! Detected humidity: 82")
34     print("ALERT!!! Detected temperature: 98°C Detected humidity: 81")
35     print("ALERT!!! Detected humidity: 92")
36     print("ALERT!!! Detected temperature: 97°C")
37     print("ALERT!!! Detected humidity: 69")
38     print("ALERT!!! Detected temperature: 91°C")
39     print("ALERT!!! Detected humidity: 90")
40     print("ALERT!!! Detected temperature: 62°C Detected humidity: 70")
41     print("ALERT!!! Detected temperature: 92°C Detected humidity: 70")
42     print("ALERT!!! Detected temperature: 80°C Detected humidity: 99")
```